



MATERIALS TABLE				
BAR	NUMBER OF BARS	TYPE	* b LENGTH(S)	BAR SIZES IN INCHES
B-1	2	∠	5'-8"	1 1/2x1 1/2x1/4
B-2	3	∠	1'-6", 2'-8", & 3'-10"	1x1x1/8
B-3	1	FLAT	5'-0"	1x1/4
B-4	1	∠	VARIES	2x2x1/4
POST	1	∠	8'-0"	2 1/2x2 1/2x1/4
PLATE	5	FLAT	3" LENGTHS OR DIA.	3"x3"x1/4
PIN	2	ROUND	* c 18"/24"	3/4 DIA.

NOTES

1. WHEN SECURING CATTLE GUARD WINGS TO PAVEMENT:
FOR ALTERNATE A:
TO SECURE WING FEET PLATES, DRIVE (3) $\frac{3}{4}$ " DIA. ANCHOR PINS THROUGH WING FEET PLATE HOLES INTO 1" PRE ROTO-DRILLED HOLES IN THE ASPHALT/CONCRETE PAVEMENT. DRIVE THE ANCHOR PIN HEAD FLUSH TO THE WING FOOT. THE ANCHOR PIN LENGTH MAY BE ADJUSTED FOR THE SOIL TYPE.
FOR ALTERNATE B:
PLACE A $\frac{3}{8}$ " TURNBUCKLE FASTENED WITH MIN. 10 GAUGE WIRE BETWEEN THE WING CENTER MEMBER AND THE BRACE POST. TIGHTEN TURNBUCKLE TO PRESS WING FEET TO ROADWAY PAVEMENT.
2. TIE A MINIMUM OF (3) WIRES FROM THE BRACE POST TO THE WING B-2 & B-3 BAR INTERSECTIONS FOR BARBED WIRE INSTALLATIONS. MESH WIRE FENCES WILL REQUIRE A SECTION OF WIRE MESH TIED FROM THE B-2 BAR TO THE BRACE POST.
3. WHEN RETROFITTING A PRE-EXISTING CATTLE GUARD INSTALLATION IT IS RECOMMENDED THAT THE BRACE POST AND B-4 MEMBERS BE INSTALLED ANEW. THIS ACTION WILL INSURE A PROPER FIT OF THE WING TO THE ROADWAY. WHEN THE 3'-0" MIN. FROM THE ROADWAY SHOULDER TO THE POST AND/OR THE 4'-3" MIN. WING HEIGHT DIMENSIONS ARE EXCEEDED THE WING BAR MEMBER LENGTHS WILL NEED TO BE ADJUSTED FOR FIELD CONDITIONS.
4. THE AREA BETWEEN THE CATTLE GUARD WINGS AND THE 1:1 TAPER SHALL BE PAVED. THE PAINTED CATTLE GUARD CAN BE PLACED ON A GRAVEL SURFACE ROADWAY PROVIDED THE MARKED AREA IS PAVED.
5. THE PAINTED CATTLE GUARD MARKINGS SHALL BE PAINTED WITH ITD FORMULA NO. 4 OR BETTER. LAMINATE MARKINGS SHALL BE APPROVED BY THE ENGINEER.
6. ALL THE EXPOSED STEEL SURFACES BELONGING TO THE CATTLE GUARD WINGS SHALL BE PAINTED WITH ITD YELLOW FORMULA NO. 10.

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	8-04	MSM	
2	10-05	MSM	

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME flc_1005.std
DRWG. ORIG. DATE: JANUARY, 2004

**IDAHO
TRANSPORTATION
DEPARTMENT**



BOISE IDAHO

ASSISTANT CHIEF ENGINEER (DEVELOPMENT)
Steven C. Hinkley
CHIEF ENGINEER

STANDARD DRAWING

PAINTED CATTLE GUARD

English
STANDARD DRWG. NO.

F-1-C

SHEET 1 OF 1

